

Title of Award Nomination	Consumer Benefit	Cost Savings	Quality of Life	Total	Top 23
1. The U.S. Strategic Petroleum Reserve					
2. DOE-2: Energy- and Cost-Calculation Software					
3. Rapid Detection and Control of <i>Legionella</i> Bacteria					
4. The Electronic Ballast: Accelerating the Market for Efficient Lighting					
5. Refrigeration R&D					
6. Energy Efficient Windows					
7. Flow Cytometry for Biomedicine					
8. Ordered Intermetallic Alloys – Nickel and Iron Aluminides					
9. Strained-Layer Semiconductor					
10. 308nm Excimer Laser System					
11. Structured Computer-Aided Logic Design (SCALD)					
12. KIVA - Computer Codes for Cars					
13. Synthetic-Diamond Drill Bits					
14. Manifest Information Management System (MIMS)					
15. Semiconductor Bridge					
16. An Improved Method of Biological Sample Analysis: Capillary Zone Electrophoresis – Mass Spectrometry					
17. Energy Efficient Large Commercial Absorption Chiller					
18. Improved Detection of Breast Cancer Using Positron Emission Tomography (PET)					
19. National Energy Audit (NEAT)					
20. Positron Emission Tomography (PET)– Studies of Drug Addiction and Drug Action					

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21. Residential Radon Entry and Mitigation					
22. Advanced Radioisotope Power System Program					
23. CFC/HCFC Alternatives for the Building Sector					
24. Photonic Bandgap Structures (PBG) Research					
25. Production of Medical Isotope Yttrium-90 from Fission Byproduct Strontium-90					
26. Advanced Airfoils for Wind Turbines					
27. Energy Storage System					
28. Gallium Indium Phosphide/Gallium Arsenide/(Germanium) Monolithic, Series-Connected, Multi-Junction Solar Cells					
29. Magnetoencephalography (MEG) and Functional Brain Imaging					
30. Parallel Virtual Machine (PVM)					
31. Advanced Turbine Systems Mercury 50: Leading the Way in Renewing the Nation's Electrification					
32. Flame Quality Indicator (FQI)					
33. Tapping Unrecovered Natural Gas Resources					

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34. Lab-on-a-Chip					
35. MEC <i>check</i> : Making Sense of the Model Energy Code					
36. "Universal" Lead-Free Solder Alloy					
37. Coal Technology Leads to Artificial Heart Pump					
38. Fiber Optic Sensors					
39. Wide Area Measurement System (WAMS)					
40. Bio Treatment Facility Using Bacteria and Plants to Remove Oil from Produced Water					
41. Defense Waste Processing Facility (DWPF)					
42. Environmentally Conscious Cleaning Solvent					
43. Groton Fuel Cell Landfill Gas Project					
44. Integrated Gasification Combined Cycle (IGCC)					
45. Low-Track Software					
46. PHOSter					
47. Reduction in Bus Emissions					
48. (RABiTS) Rolling Assisted Biaxially Textured Substrates					
49. Supercritical Fluid Slashing System					
50. Variable-Conductance-Insulation Catalytic Converter (VCI Converter)					
51. Alternative Energy Project – Ascension Island					
52. Atmospheric Fluidized Bed Combustor					
53. Biological Microcavity Laser					
54. Biomimetic Coatings for Orthopedic Implants					

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55. Carbon Monoxide Dosimeter					
56. An Energy-Efficient and Safe Torchiere Lighting Fixture					
57. Fuel Cells for Transportation					
58. Karnal Bunt Detection Technology					
59. Magnetic Refrigeration Unit					
60. Maverick Tank Inspection Robot					
61. (BOA) Big On Asbestos					
62. Call-Net					
63. Characterizing Diesel Particle Exhaust					
64. Diesel Engine Development					
65. Digital Mammography					
66. Efficient Low-Emissions Burner for Heating and Power					
67. Electro-optic High Voltage (EOHV) Sensor					
68. Innovative Uses of Encapsulation Technology to Reduce Risk and Waste					
69. Low NOx Burners					
70. Reducing Standby Power Losses					
71. Reducing Urban Heat Islands to Save Electricity and Reduce Smog					
72. RSP Tooling					
73. Soft-Sided Waste Container Technology					
74. ST Series of Thin Film Solar Modules					
75. Ultra-High Efficiency Dehumidification Grain Dryer					

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76. Waste Isolation Pilot Plant					
77. West Valley Demonstration Project: Vitrification					
78. Advanced Turbine System Program					
79. Aerosol Duct Sealer					
80. ASHRAE/IESNA Standard 90.1 – 1999, Energy Efficiency for Buildings Except Low Rise Residential					
81. Biomechanical Pancreas to Manage Diabetes					
82. CP-5 Large Scale Demonstration Project					
83. Development of Novel Solid Electrolytes					
84. Durable, Energy-Efficient Lighting for Public Housing					
85. Electronic Notebook V1.10					
86. Explosives-Collecting Preconcentrator					
87. GeoSiphon/GeoFlow Groundwater Treatment					
88. Green Solvents					
89. Groundwater Remediation Using Phytoremediation					
90. The Home Energy Saver: The First Web-Based Energy Tool for Consumers					
91. Lyme Disease Diagnosis and Prevention					
92. NASA Space Experiment					
93. PEREGRINE 3D Monte Carlo: A Cancer Radiotherapy Treatment System					
94. Process to Recover and Clean Flexible Polyurethane Foam from Automobile Shredder Residue					

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95. PubScience					
96. Risk Based Data Management System					
97. Student Streamside Incubation Project					
98. UNI-SOLAR Triple-Junction Amorphous-Silicon Solar-Electric Module Roof Shingles					
99. Human Genome					
100. Thin-Wall Steel Castings for Heavy Vehicles					